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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/647,811	08/25/2003	Rainer Gadow	4965-000160	2359	
27572	7590 12/09/2004		EXAM	INER	
•	DICKEY & PIERCE,	PAIK, SAP	PAIK, SANG YEOP		
P.O. BOX 828 BLOOMFIEL	D HILLS, MI 48303	,	ART UNIT	PAPER NUMBER	
	•		3742	·	

DATE MAILED: 12/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/647,	811	GADOW ET AL.	1			
		Examin	er	Art Unit				
		Sang Y		3742				
Period f	The MAILING DATE of this communic or Reply	ation appears on ti	he cover sheet with	the correspondence add	dress			
A SH THE - Exte afte - If th - If NO - Fail	MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of r SIX (6) MONTHS from the mailing date of this commune e period for reply specified above is less than thirty (30). O period for reply is specified above, the maximum stature to reply within the set or extended period for reply wire reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no entire including the includi	event, however, may a repl atutory minimum of thirty (; will expire SIX (6) MONTH oplication to become ABAN	y be timely filed 30) days will be considered timely IS from the mailing date of this co IDONED (35 U.S.C.§ 133).	<i>r.</i> Immunication.			
Status					•			
1)⊠	Responsive to communication(s) filed	on 31 August 200	04.					
2a)□								
3)□								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims							
.· Applicat	ion Papers							
9)[The specification is objected to by the	Examiner.						
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	under 35 U.S.C. § 119							
12)□ a)	Acknowledgment is made of a claim fo All b) Some * c) None of: 1. Certified copies of the priority do 3. Copies of the certified copies of application from the Internations See the attached detailed Office action	ocuments have be ocuments have be the priority docun al Bureau (PCT Ri	een received. een received in App nents have been re ule 17.2(a)).	olication No eceived in this National	Stage			
Attachmer	nt(s) ce of References Cited (PTO-892)		4) Interview Sun	nmary (PTO-413)				
	ce of References Cited (P10-892) ce of Draftsperson's Patent Drawing Review (PT0	D-948)	Paper No(s)/N	Mail Date				
	mation Disclosure Statement(s) (PTO-1449 or P [*] er No(s)/Mail Date	TO/SB/08)	5) Notice of Info	rmal Patent Application (PTO	⊢152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 32-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al (US 3,978,315) in view of Miyata (US 6,448,538) or Abbott et al (US 6,762,396).

Martin et al show a ceramic cooktop with a cooktop (1) made of glass ceramic, an intermediate layer (2) made of a cermet material having a metal matrix of cobalt and a ceramic material including ceramic oxides, an insulating layer (3) made of cordierite, and a heat conductor layer (4). Martin et al further show that the glass coating on the ceramic glass and the conductive layer are provided utilizing the known method which includes spraying. However, Martin et al do not explicitly show that the spraying is thermal spraying.

Miyata shows a ceramic heater with the dielectric films provided by means of thermal spraying. Abbott et al also show that it is well known in the art to use the thermal spraying to provide the coating films on the ceramic substrate. In view of Miyata or Abbott et al, it would have been obvious to one of ordinary skill in the art to adapt Martin et al with the thermal spraying means to provide the coated layers to improve the adhesion of such layers to the ceramic substrate.

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Claims 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al 3. in view of Miyata or Abbott et al as applied to claims above, and further in view of Alexander (US 3,110,571) or Flaitz et al (US 4,764,341).

Martin et al in view of Miyata or Abbott et al show the ceramic cooktop claimed except a ceramic bonding layer.

Alexander shows a ceramic bonding layer to bond a ceramic to a metallic layer. Flaitz et al also shows a ceramic bonding layer to bond a ceramic substrate to a metallic layer. In view of Alexander or Flaitz et al, it would have been obvious to one of ordinary skill in the art to adapt Martin et al, as modified by Miyata or Abbott et al, with a ceramic bonding layer to provide a ceramic bonding layer between a ceramic substrate and a metallic layer such as the cermet material to more securely bond such layers.

Allowable Subject Matter

4. Claims 1-31 and 37 are allowed.

Response to Arguments

- Applicant's arguments with respect to claims have been considered but are moot in view 5. of the new ground(s) of rejection.
- Any inquiry concerning this communication or earlier communications from the 6. examiner should be directed to Sang Y Paik whose telephone number is 571-272-4783. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sang Y Paik Primary Examiner Art Unit 3742

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